

## **VA GROUND WATER PROTECTION STEERING COMMITTEE**

**[www.deq.virginia.gov/gwpsc](http://www.deq.virginia.gov/gwpsc)**

The next meeting of the Steering Committee will be held on  
**Tuesday, September 16, 2008 from 9 a.m. to 11:00 a.m.**

**We will meet in the seventh floor conference room at DEQ's  
downtown office, 629 E Main Street, Richmond VA 23219.**

For more information contact Mary Ann Massie at 804-698-4042 or  
email [mamassie@deq.virginia.gov](mailto:mamassie@deq.virginia.gov)

### **Meeting Summary: Tuesday, July 15, 2008**

Steering Committee members in attendance:

Mary Ann Massie, Department of Environmental Quality, Water Division

Valerie Rourke, Department of Environmental Quality, Water Division

Jutta Schneider, Department of Environmental Quality, Waste Division

Scott Johnson, Department of Agriculture and Consumer Services

Brian Benham, Virginia Tech

Erin James, Virginia Tech

Grier Mills, Department of General Services/Division of Consolidated Laboratory  
Services

George Harlow, US Geological Survey

Wyatt Little, Department of Housing and Community Development

Steve Pellei, Department of Health

Our guests were:

Dr. Ellen Gilinsky, Department of Environmental Quality, Water Division

Scott Kudlas, Department of Environmental Quality, Water Division

Joel Maynard, Department of Environmental Quality, Water Division (conf. call)

Meade Anderson, Department of Environmental Quality, Waste Division

Duke Price, Department of Health

Steve Werner, Draper Aden

Anthony Creech, Resource International

Gayl Fowler, Thomas Fauntleroy, and Lyn Neira – SAIF Water Wells Inc.

Michelle Ashworth, AquaLaw

Katie Frazier, Virginia Agribusiness

Agencies not in attendance:

Virginia Department of Mines, Minerals, and Energy; Virginia Department of  
Business Assistance; Virginia Department of Conservation and Recreation.

Mary Ann introduced Scott Kudlas to the Steering Committee. Scott is the new  
director of the Office of Surface and Ground Water Supply Planning. The office  
is now under the Water Division; we were pleased to welcome Dr. Ellen Gilinsky  
to the meeting as well. Dr. Gilinsky greeted the attendees and made brief

remarks on the importance of ground water protection efforts both at the State and Federal level.

## **AGENCY UPDATES:**

### **Department of Environmental Quality**

Mary Ann Massie noted the Division formerly known as Water Resources had been renamed the Office of Surface and Ground Water Supply Planning and was now under the Water Division.

Mary Ann noted the Request For Proposals to assist local governments with wellhead protection will be issued this week. Funding is a combination of Clean Water Act and Safe Drinking Water Act funds; DEQ administers the program. Funds are awarded on a competitive basis to municipalities with ground water based community systems.

The Ground Water Protection Grant workplan for FFY09 has been finalized and forwarded to EPA.

Jutta Schneider, Waste Division, noted two critical division vacancies were filled from within DEQ during the last month. The new director of the Office of Remediation Programs is Durwood Willis, and Betty Lamp was selected as the new director of the Office of Spill Response and Remediation.

Several DEQ Central and Regional Office hazardous waste program staff was recognized by EPA for their efforts in support of the Resource Conservation and Recovery Act (RCRA) Corrective Action Program. These staff were presented with an EPA "National Notable Achievement Award" for their involvement in two specific projects at a recognition ceremony in Arlington, Virginia on May 20. One award is the "Outstanding Use of Redevelopment Potential Team Award" for the former Lucent Richmond Works, a mothballed high priority RCRA corrective action facility which is undergoing transformation to "The Shops at White Oak Village", a sustainable, redevelopment project that was designed using Leadership in Energy and Environmental Design (LEED) guidelines.

The second award is the "Sustainability Team Award" for work related to the Dupont Martinsville facility. Due to the Team's work, the remedy at the Martinsville facility incorporates green house gas emissions, energy use, and resource use over the life of the remedy as part of the remedy decision process.

Also, EPA Region 3 recently announced that the cleanup at International Paper's Franklin, Virginia facility has been completed. International Paper completed the RCRA Corrective Action cleanup through EPA's Facility Lead Program. This program invites businesses like International Paper, which meet certain standards of environmental citizenship, cooperation and technical ability to complete the required clean-up on a more self-directed track, while still under the supervision of EPA. The June 9<sup>th</sup> Final Decision states that EPA has determined the work at the 3,660 acre site has resulted in a significant reduction in risk to human health and the environment. EPA's final decision prohibits any residential use of the site as well as the use of ground water from the upper level aquifer. It also requires International Paper to implement a water monitoring program and conduct regular inspection and maintenance activities. The clean-

up will continue to be monitored by International Paper under the supervision of the DEQ.

Valerie Rourke, Office of Land Application Programs/Water Div., stated a notice of intended regulatory action (NOIRA) to amend the VPA and VPDES Regulations relating primarily to biosolids land application issues, has been published. The comment period closes July 31. A public meeting is scheduled July 24 at 1 p.m. at DEQ's Piedmont Regional Office.

The General VPA Permit Regulation for Poultry Waste Management is also being amended and a technical advisory committee has been organized specifically to examine the need for requiring nutrient management plans for end users receiving more than 10,000 dry tons of poultry litter annually.

Valerie also noted the Water Reclamation and Reuse Regulation has been finalized and is at the Governor's office awaiting approval. Once the Governor gives the go ahead, it will be published for 30 days in the Virginia Register and is expected to become effective immediately thereafter. Recommendations on Section 105 of the regulation which specifically addresses accounting for assumed nutrient losses from irrigation reuse of non-BNR reclaimed water will come before the Board at the July 29 meeting. Valerie is currently drafting implementation guidance for the reuse regulation.

### **Department of Agriculture and Consumer Services**

Scott Johnson noted his involvement in the biosolids and the poultry litter TACs. He attended a listening session hosted by NRCS on the proposed Farm Bill. The session targeted priorities for spending 188 million dollars that have been allocated to Chesapeake Bay states. Other listening sessions have been requested. The meeting was well attended.

### **US Geological Survey**

George Harlow reported their continuing cooperation with the Hampton Roads Planning District Commission and the DEQ Ground Water Characterization program on completion of a 600-foot test hole via mud-rotary drilling in north-central Southampton County. An electric borehole geophysical log was obtained and the test hole was properly abandoned. Subsequently, continuous 4-inch diameter core was obtained at the site to a depth of 537-feet via Roto-Sonic drilling and four, 4-inch diameter observation wells were completed to approximate depths of 537, 178, 96 and 42 feet, respectively (completed in the Lower Potomac, Upper Potomac, basal part of the Yorktown-Eastover and upper part of the Yorktown-Eastover aquifers, respectively).

In cooperation with the County of Bedford and the DEQ Ground Water Characterization program three observation wells were completed via air-rotary drilling at Montvale Park, Montvale School, and the Otter Creek Solid Waste Collection Center. The 6-inch diameter open-hole bedrock wells were completed to depths of 101, 202 and 182 feet, respectively.

In cooperation with the City of Virginia Beach and the DEQ Ground Water Characterization program fourteen 4-inch diameter observation wells (a pair of wells at seven sites) have been constructed via Roto-Sonic drilling in the City. Continuous 4-inch diameter core was obtained from the deepest well at each of

the seven sites. Five of the drill sites were located in the northern (urban) parts of Virginia Beach and two in the very southern limits near the North Carolina border. Completed well depths range from 29 to 197 feet.

### **Department of General Services, Division of Consolidated Laboratory Services**

Grier Mills noted DCLS is receiving twenty five to fifty daily requests for rabies analysis. There has also been an increase in food borne illness reports and analysis.

An increase in the occurrence of disinfection byproducts was also noted. This can be attributed to elevated summer temperatures combined with increases in organic matter in surface waters.

West Nile Virus samples have also increased.

### **Department of Health**

Steve Pellei reported two vacant positions have been advertised within the Office of Drinking Water. They are the Special Projects engineer and the Director of the Division of Technical Services.

Steve also noted final revisions are being made to the Request For Proposals to hire a contractor to assist small ground water based systems develop protection plans. The contractor selected will work with prioritized waterworks to develop wellhead protection plans and assist with implementation. Funding is exclusively through the Safe Drinking Water Act and VDH administers the program.

### **Department of Housing and Community Development**

Wyatt Little reported on DHCD's June 27, 2008 announcement that \$10 Million in Virginia Community Development Block Grant Funding for projects had been awarded for public water and sewer systems. VCDBG grants are awarded through a competitive process. Most projects benefit low- and moderate-income people, and many projects are targeted for the prevention or elimination of slums and blighting conditions.

Several projects are noted as either Multi-Year or Letter-of-Intent projects. Multi-year projects are those that will receive a contract allocating funds for one year, and after achieving specific performance targets, will then be eligible for another year of funding. Letter-of-Intent projects are those which will be awarded after the locality meets specific targets.

Funds are also used in combination with other funding programs. CDBG funds will impact the following localities:

City of Norton

Albemarle County

Charles City County

Nottoway County

Scott County

Smyth County

City of Norton Sewer Rehabilitation and Expansion  <i>Letter of Intent</i>	Norton, City of	B. Robert Raines, Mayor	CDBG	\$ 1,000,000
			SRWEP	1,000,000
			Rural Development	514,800
			Local	
			TOTAL	195,200
				\$ 2,710,000

**Project Description:** The city is implementing a phased solution to address severe health concerns and water quality issues in the Josephine community. Previous studies noted that approximately 17 percent of households in this community directly discharge untreated wastewater in the water system, while many others had very old and failing septic systems.

When completed, approximately 102 households will be connected to the city's public wastewater system. Additionally, the Benges Branch interceptor will be repaired and 5,600 linear feet of eight- inch sewer line, 4,750 linear feet of six-inch sewer laterals, 27 manholes, and related appurtenances will be rehabilitated or replaced.

<b>District 1 Housing Rehabilitation Project</b>  <b>MULTI-YEAR</b>	<b>Nottoway, County of</b>	<b>Sherman C. Vaughn, Board of Supervisors</b>	<b>CDBG</b>	<b>\$ 999,989</b>
			<b>State</b>	<b>620,021</b>
			<b>Federal</b>	<b>16,250</b>
			<b>Local</b>	<b>11,500</b>
			<b>TOTAL</b>	<b>\$ 1,647,760</b>

**Project Description:** The county will assist 27 owner occupied substandard households concentrated in and around the Town of Burkeville. A total of 15 homes will be rehabilitated and 12 will be substantially reconstructed (replaced) to meet DHCD Housing Quality Standards. Additionally five wells and four septic systems will be installed to serve these homes. The project will benefit 57 people, all of whom are low-to-moderate income.

<b>Bishtown Area Water Project</b>	<b>Scott, County of</b>	<b>Dr. David Redwine, Board of Supervisors</b>	<b>CDBG</b>	<b>\$ 1,000,000</b>
			<b>State</b>	<b>1,639,735</b>
			<b>TOTAL</b>	<b>\$ 2,639,735</b>

**Project Description:** The county will expand its water system to provide water service to 145 households in the Bishtown area. The project will include the installation of 33,800 linear feet of 8-inch water line, 16,325 linear feet of 6-inch water line, 17,700 linear feet of four-inch water line, and 5,240 linear feet of 3/4-inch water service line. The project will benefit 303 people, of whom 192 (63 percent) are low-to-moderate income.

<b>Groseclose Sewer Project</b>  <b>Letter of Intent</b>	<b>Smyth, County of</b>	<b>Charlie Clark, Board of Supervisors</b>	<b>CDBG</b>	<b>\$ 700,000</b>
			<b>SRWEP</b>	<b>1,000,000</b>
			<b>EPA Grant</b>	<b>240,600</b>
			<b>Rural Development</b>	<b>1,723,560</b>
			<b>TOTAL</b>	<b>\$ 4,133,120</b>
<b>Project Description:</b> The county will extend sewage collection lines to connect approximately 70 occupied households and eliminate their existing onsite septic systems, a number of which are aging and incapable of treating the wastewater produced. This will include 25,000 linear feet of gravity sewer lines and related appurtenances. In doing so, the project will remove the hazard of contaminated groundwater and enable occupancy in housing units that are currently vacant due to failed septic disposal systems that cannot be repaired or replaced. The project will benefit 158 people, 115 of whom (73 percent) are low-to-moderate-income.				

Crozet Meadows	Albemarle, County of	Kenneth C. Boyd, Chairman, Board of Supervisors	CDBG	700,000
			VHDA	1,930,000
			Low Income Housing Tax Credits	2,636,737
			Federal Loan	843,975
			Local	134,400
			Private	2,736,590
			TOTAL	\$8,981,702
<b>Project Description:</b> The county will rehabilitate and preserve 28 existing units and construct 38 units of affordable rental housing to serve low-to-moderate income elderly residents of Albemarle County. The proposed development, to be named Crozet Meadows, will incorporate universal design elements for accessibility and is to be built to using environmentally friendly (EarthCraft) methods. CDBG assistance will support the completion of site work including erosion control, water and sewer, curbs and sidewalks, landscaping, and storm water management. The project will directly benefit 83 people, all of whom are low-to-moderate income.				
Gilfield Comprehensive Community Development Project  MULTI-YEAR	Charles City, County of	Gilbert Smith, Chairman, Board of Supervisors	CDBG	\$ 798,322
			State	606,900
			TOTAL	\$1,403,222
<b>Project Description:</b> The county will install a decentralized wastewater treatment system to serve 25 households in the Gilfield neighborhood. The project will include the rehabilitation of 11 homes, reconstruction of eight homes, including three currently without indoor plumbing facilities, and the removal of two vacant structures. The project will benefit 94 people, 72 of whom are low-to-moderate income.				

Erin James and Brian Benham, VT Biological Systems Engineering (BSE), gave an overview of the Virginia Household Water Quality Program and Virginia Master Well Owners Network. The Virginia Household Water Quality Program, initially launched in 1989, is being revitalized through a grant from the USDA. Erin has been hired as the coordinator for the program. She will work with Virginia Cooperative Extension agents to bring this program to Virginia localities. BSE will also initiate a new program for Virginia, the Master Well Owner Network. This program has been very well received in Pennsylvania and initial outreach shows great promise in Virginia. The Master Well Owner Network mimics the Master Gardener Program concept. Educational workshops will be offered to extension agents on proper design, management, and maintenance of private drinking water systems. Extension agents will then train other volunteers to carry the educational message throughout the county.

Erin James is the lead for both programs and can be reached at [ejames@vt.edu](mailto:ejames@vt.edu) or 540-231-9058.

**Thank you to everyone who attended the meeting. The turnout was great and participation was excellent. OUR NEXT MEETING IS TUESDAY, SEPTEMBER 16. We will begin at 9 a.m. and adjourn by 11.**